





PRELIMINARY REPORT  
INDUSTRY SERIES**1982**  
**Census of**  
**Construction Industries** no. 23CC82-I-23(P)  
Issued March 1984EXCAVATING AND FOUNDATION WORK  
SPECIAL TRADE CONTRACTORS  
(Industry 1794)

During 1982, the establishments with paid employees classified in this industry accounted for \$8.1 billion in total business receipts. Of this amount, \$7.7 billion were receipts for construction work. These establishments paid out \$2.0 billion for materials, components, supplies, and fuels and \$.8 billion for construction work subcontracted to others. This industry had total average employment of 130,440 employees with total payroll of \$2.0 billion. Value added for 1982 was \$5.2 billion.

Establishments classified in this industry are primarily engaged in excavation work, foundation work, and digging and loading, in connection with building, heavy, or engineering construction. For specific examples, refer to the 1972 Standard Industrial Classification (SIC) Manual, and its 1977 supplement, published by the Office of Management and Budget, Executive Office of the President.

For this census, a "construction establishment" was defined as a relatively permanent office or other place of business at which or from which the usual business activities related to construction were conducted. A separate census report was required from each establishment but not from each construction site. Instead, the data for work at each site were included in the report from the appropriate office or branch office. Foreign construction activities were not included in this census.

The 1982 estimates for establishments with paid employees in all of the construction industries are based on reports from a probability sample of approximately 172,000 establishments selected from a universe of about 498,000 construction establishments with payroll. The data obtained from the sample were weighted to represent all construction establishments with payroll. Complete descriptions of the sampling and estimating procedures will be included in the final reports.

Since the data in this report are based on a sample, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same questionnaires and procedures. The relative standard error shown in the tables is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population was surveyed.

All data shown are based on current dollars for the years specified and have not been adjusted for inflation.

U.S. Department  
of Commerce  
BUREAU OF  
THE CENSUS

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**Table 1. General Statistics for Establishments With Payroll by States: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Location of establishment	1982							
	Number of establishments	Employees**		Payroll		Construction worker hours (thousands)	Total construction receipts	Net construction receipts†
		All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H	
United States .....	17 368	130 440	109 933	2 026 685	1 658 608	184 769	7 698 653	6 918 435
Alabama .....	163	2 195	1 387	26 901	20 686	2 420	96 857	(D)
Alaska .....	91	1 129	921	24 134	20 563	1 500	93 238	86 769
Arizona .....	171	1 383	1 167	22 844	18 410	1 930	101 517	92 359
Arkansas .....	188	1 301	1 179	21 393	18 487	2 267	92 334	87 820
California .....	1 011	8 702	7 117	174 513	139 356	11 065	697 478	596 948
Colorado .....	475	4 126	3 544	66 519	53 010	5 836	221 940	202 178
Connecticut .....	345	2 071	1 797	38 003	31 747	3 211	136 237	123 544
Delaware .....	34	(D)	319	(D)	4 916	552	(D)	17 818
District of Columbia .....	*5	(D)	115	(D)	1 506	130	6 154	(D)
Florida .....	520	5 830	4 896	81 026	65 124	8 957	350 766	313 108
Georgia .....	267	1 996	1 808	25 547	22 714	3 172	119 053	108 899
Hawaii .....	37	395	307	8 189	5 678	471	31 883	25 588
Idaho .....	68	435	378	5 961	5 116	608	21 337	20 084
Illinois .....	716	5 727	4 691	102 042	84 310	7 403	383 790	348 859
Indiana .....	484	2 826	2 372	43 704	37 039	3 887	150 365	140 091
Iowa .....	356	1 599	1 380	19 583	16 856	2 277	73 010	68 103
Kansas .....	281	1 912	1 646	30 075	23 994	2 851	110 545	99 626
Kentucky .....	258	1 240	1 099	16 111	12 976	1 721	69 236	56 337
Louisiana .....	242	3 652	3 145	61 541	49 910	5 796	218 378	203 341
Maine .....	275	2 189	1 321	22 887	19 345	2 223	76 605	68 525
Maryland .....	299	2 918	2 511	41 496	33 599	4 058	140 191	127 205
Massachusetts .....	466	3 503	2 916	58 377	47 073	5 155	193 224	180 178
Michigan .....	703	3 665	3 098	56 092	46 335	4 833	211 355	186 778
Minnesota .....	423	2 662	2 251	42 876	34 308	3 402	151 999	137 429
Mississippi .....	110	1 126	1 003	13 777	11 766	1 849	65 640	60 097
Missouri .....	479	2 770	2 353	42 649	34 593	3 664	154 477	138 162
Montana .....	122	599	516	10 084	8 310	910	39 765	36 376
Nebraska .....	228	1 185	1 057	16 518	13 604	1 761	59 405	54 679
Nevada .....	91	561	480	10 129	8 586	751	40 540	36 182
New Hampshire .....	210	1 047	913	13 020	11 489	1 580	47 144	43 494
New Jersey .....	520	3 260	2 795	52 990	44 750	4 553	213 703	192 747
New Mexico .....	90	740	611	9 917	7 285	1 045	(D)	32 392
New York .....	868	5 744	4 827	92 412	75 073	8 233	336 808	302 725
North Carolina .....	442	2 882	2 466	26 671	21 950	4 022	105 881	97 251
North Dakota .....	126	872	760	12 478	10 785	1 334	46 518	43 243
Ohio .....	894	5 570	4 758	94 681	78 893	7 670	324 390	297 021
Oklahoma .....	297	2 408	1 979	39 435	31 095	3 554	147 677	135 770
Oregon .....	244	1 439	1 188	23 014	18 691	1 850	94 249	81 146
Pennsylvania .....	869	6 895	5 843	105 286	86 729	9 460	385 523	338 873
Rhode Island .....	128	642	546	10 086	8 727	844	33 082	29 723
South Carolina .....	151	1 307	1 128	16 522	12 822	2 090	68 383	60 449
South Dakota .....	69	455	406	6 271	5 288	701	28 051	25 153
Tennessee .....	295	3 221	2 751	45 268	37 048	5 003	208 236	168 962
Texas .....	1 187	12 966	11 230	200 548	163 954	20 217	778 144	708 716
Utah .....	144	1 009	889	13 991	11 586	1 396	55 472	50 568
Vermont .....	154	637	542	7 744	6 474	972	31 348	29 272
Virginia .....	441	3 708	3 199	50 251	40 020	5 515	184 256	163 976
Washington .....	465	2 193	1 856	34 764	28 606	2 708	135 634	114 661
West Virginia .....	218	1 135	1 018	15 821	13 411	1 597	59 184	56 089
Wisconsin .....	507	3 073	2 574	45 411	38 852	4 267	188 763	173 111
Wyoming .....	123	1 005	867	18 455	15 149	1 473	65 661	61 366



1982—Con.						1977			Relative standard error of estimate (percent) for column—			Location of establishment
Value added††	Payments for materials, components, supplies, and fuels	Payments for construction work sub-contracted to others	Rental payments for machinery, equipment, and structures	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
5 235 403	1 993 128	780 218	406 102	394 949	4 807 214	104 092	4 215 722	2 993 648	1	(W)	1	U.S.
57 761	(D)	(D)	6 469	4 411	48 075	1 520	46 486	33 710	4	-	3	Ala.
74 279	20 498	6 468	8 295	3 782	43 836	250	16 175	13 492	7	6	10	Alaska
70 107	(D)	9 157	4 247	3 862	58 713	1 014	44 155	30 532	7	6	26	Ariz.
71 379	(D)	4 514	4 623	11 938	56 885	816	30 741	20 197	9	7	3	Ark.
467 685	166 837	100 530	59 646	31 068	355 225	7 698	501 434	335 657	2	1	2	Calif.
160 374	52 779	19 762	11 993	11 468	150 518	2 940	103 256	76 165	5	3	4	Colo.
91 486	34 075	12 693	4 408	8 204	65 682	1 603	59 346	41 222	5	5	12	Conn.
14 408	3 664	(D)	(D)	1 335	(D)	302	13 321	9 379	-	11	11	Del.
3 510	(D)	(D)	(D)	(D)	(D)	68	3 493	2 326	-	-	-	D.C.
229 772	88 306	37 658	25 407	17 162	177 648	2 678	97 381	69 392	3	2	4	Fla.
82 927	26 812	10 154	12 032	7 062	75 732	1 298	46 016	32 415	6	5	8	Ga.
21 109	6 337	6 295	3 168	(D)	20 449	377	19 887	19 882	8	11	-	Hawaii
15 480	5 031	1 253	1 217	1 029	21 952	333	7 971	6 349	12	9	24	Idaho
298 652	96 141	34 931	16 634	15 876	308 326	5 087	233 395	175 429	3	2	3	Ill.
105 689	41 260	10 274	3 596	5 917	127 398	3 316	120 740	86 263	5	5	6	Ind.
53 836	17 002	4 907	1 359	3 635	64 708	2 112	77 618	55 593	10	8	11	Iowa
68 569	33 064	10 919	4 080	6 398	95 225	1 640	59 208	43 533	6	6	11	Kans.
41 945	17 145	12 898	2 507	3 593	54 845	2 149	70 912	56 839	9	8	13	Ky.
153 249	55 022	15 037	9 596	13 398	139 078	1 472	54 324	38 388	4	2	3	La.
48 609	21 913	8 080	1 096	3 650	38 895	1 280	35 817	26 877	38	8	13	Maine
98 680	33 940	12 985	9 816	5 387	71 150	2 861	107 897	81 471	4	4	7	Md.
138 842	49 187	13 046	12 164	8 378	99 953	2 739	110 986	81 127	5	4	9	Mass.
139 394	52 913	24 577	8 273	8 836	158 982	4 358	204 459	139 844	5	4	7	Mich.
104 922	39 190	14 570	4 503	10 975	118 959	2 687	116 224	86 434	5	5	6	Minn.
50 020	10 576	5 542	8 094	5 651	25 629	614	26 053	17 746	9	6	5	Miss.
108 314	33 155	16 315	4 909	6 691	120 633	3 126	114 718	80 712	5	5	5	Mo.
26 902	9 957	3 389	1 790	4 011	42 417	495	13 114	10 170	11	9	14	Mont.
41 001	16 056	4 725	686	1 249	45 833	554	23 133	18 118	9	8	9	Nebr.
30 519	8 114	4 358	5 068	1 971	28 251	497	21 683	18 065	9	7	7	Nev.
32 847	12 165	3 650	874	1 075	23 454	878	24 642	17 681	10	10	18	N.H.
138 409	58 622	20 955	10 014	9 298	107 572	2 801	117 295	79 730	5	4	9	N.J.
26 457	7 107	(D)	1 409	2 314	21 763	323	13 420	8 137	10	7	12	N. Mex.
227 033	90 036	34 083	14 746	12 993	156 440	6 086	252 770	173 466	4	3	5	N.Y.
74 067	26 698	8 630	3 051	4 826	94 736	2 391	78 473	54 313	8	7	9	N.C.
31 899	14 166	3 275	1 997	2 239	37 703	481	19 697	12 924	10	9	10	N. Dak.
209 758	97 482	27 368	12 304	16 184	211 545	5 577	240 521	165 639	3	4	4	Ohio
106 190	33 357	11 907	6 354	9 554	93 525	1 393	58 156	41 486	7	6	6	Okla.
59 236	25 713	13 103	3 927	2 733	55 745	1 312	60 707	42 115	8	5	8	Oreg.
242 166	103 681	46 649	11 053	17 196	222 728	6 515	241 046	174 322	3	2	4	Pa.
23 103	7 759	3 359	1 213	1 183	18 120	451	14 014	10 402	16	16	15	R.I.
40 361	20 702	7 934	4 712	4 338	48 254	812	31 842	21 728	8	7	8	S.C.
17 017	8 858	2 898	559	1 782	29 755	419	13 986	10 109	9	8	8	S. Dak.
127 199	45 191	39 273	11 987	14 379	138 838	2 091	66 444	45 722	5	3	4	Tenn.
505 947	223 502	69 427	41 212	47 830	425 160	6 962	241 383	166 838	2	2	2	Tex.
41 970	12 488	4 903	1 600	4 258	42 828	952	33 511	22 778	11	8	11	Utah
23 181	8 220	2 076	473	1 909	23 357	420	10 595	8 609	14	13	13	Vt.
116 239	50 177	20 280	17 130	11 062	121 398	2 205	75 755	51 644	6	3	5	Va.
85 021	32 399	20 973	5 948	9 610	115 079	1 743	86 587	62 732	6	7	12	Wash.
45 956	12 439	3 094	2 596	2 510	27 598	1 106	28 273	22 359	10	9	16	W. Va.
143 209	45 674	15 652	9 965	7 105	127 904	2 621	102 717	76 071	6	4	7	Wis.
48 698	14 538	4 295	3 622	2 556	36 536	669	23 953	17 526	7	5	10	Wyo.

**Table 2. Construction Receipts for Establishments With Payroll by Type of Construction: 1982 and 1977**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see page 4]

Item	1982	1977	Relative standard error of estimate (percent)	
			1982	1977
<b>Total construction receipts</b> .....	<b>7 698 653</b>	<b>4 215 722</b>	<b>1</b>	<b>1</b>
Building construction .....	1 934 060	1 566 493	1	1
Single-family houses .....	619 688	726 345	2	2
Apartment buildings with two or more apartments .....	114 658	118 448	3	5
Other residential buildings .....	55 910	26 145	3	4
Industrial buildings and warehouses .....	439 646	331 610	2	2
Office and bank buildings .....	314 602	106 651	2	1
Stores, restaurants, public garages, and automobile service stations .....	164 640	70 274	6	4
Educational buildings .....	55 487	59 822	5	5
Hospitals and institutional buildings .....	80 918	73 589	2	2
Other nonresidential buildings .....	88 505	53 609	3	4
Nonbuilding construction .....	3 523 930	1 634 891	1	1
Highways, streets, and related facilities .....	1 131 586	425 334	1	2
Dam and reservoir construction .....	149 216	56 812	2	4
Conservation and development construction .....	304 096	229 061	2	3
Power and communication transmission lines, towers, and related facilities .....	99 769	67 899	4	4
Power plants .....	132 005	66 065	2	1
Sewer, water mains, and related facilities .....	657 314	347 137	2	2
Sewage treatment and water treatment plants .....	93 734	79 371	3	3
Other nonbuilding construction .....	956 197	363 212	1	2
Construction work, n.s.k. ....	2 240 663	1 014 396	1	2

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The following abbreviations and symbols are used in the tables in this publication:

- \* Sampling error exceeds 40 percent.
- \*\* All employees (average) is the sum of construction workers during pay period including 12th of March, May, August, and November divided by 4, added to all others, March 12th.
- Represents zero.
- † Represents total construction receipts less payments for construction work subcontracted to others.
- †† Represents all business receipts less payments for construction work subcontracted to others, and payments for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from "all business receipts."
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (S) Withheld because estimate did not meet publication standards on the basis of either the response rate, associated standard error, or a consistency review.
- (W) Greater than zero but less than 1 percent.
- (X) Not applicable.
- n.s.k. Not specified by kind.



